

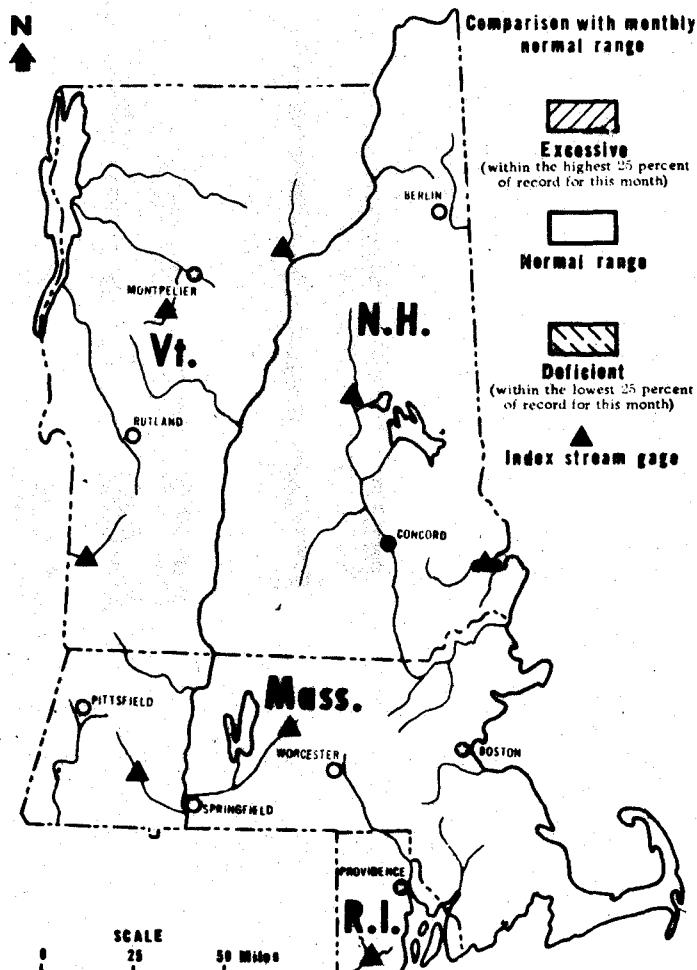


CURRENT WATER RESOURCES CONDITIONS IN CENTRAL NEW ENGLAND

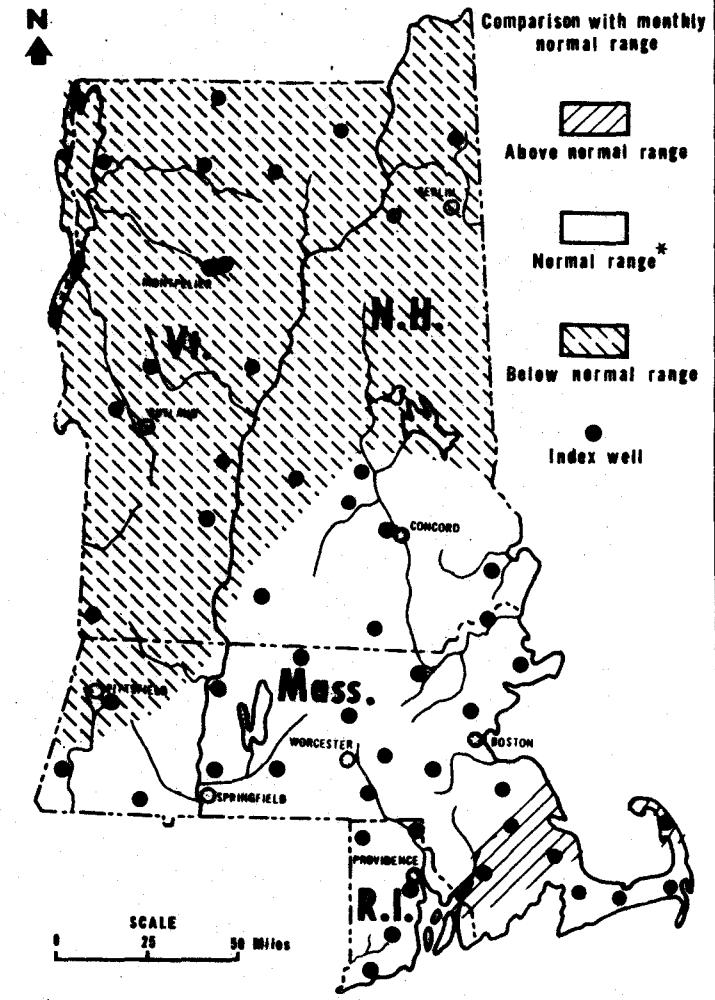


WATER RESOURCES DIVISION, U.S. GEOLOGICAL SURVEY
IN COOPERATION WITH THE STATES OF
MASSACHUSETTS, NEW HAMPSHIRE, RHODE ISLAND, AND VERMONT

SURFACE-WATER RUNOFF OCTOBER 1982



GROUND-WATER LEVELS OCTOBER 1982

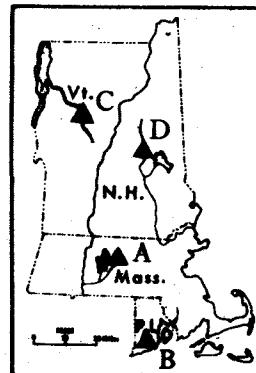


Runoff was in the normal range throughout central New England. With normal precipitation during November, runoff is expected to be deficient in most of the four states, but in the normal range in coastal areas.

Storage in major reservoirs declined slightly and ranged from about 90 to 116 percent of average for the end of October. Total contents of all index reservoirs was about 81 percent of that a year ago.

Ground-water levels in central New England show mixed trends since last month. October levels ranged from above normal in parts of southeastern Massachusetts to below normal in Vermont and northern New Hampshire as shown in the map above. Two wells in northern Vermont report record lows for the month of October. If present trends continue, water levels near the end of November are expected to be similar to October.

MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND



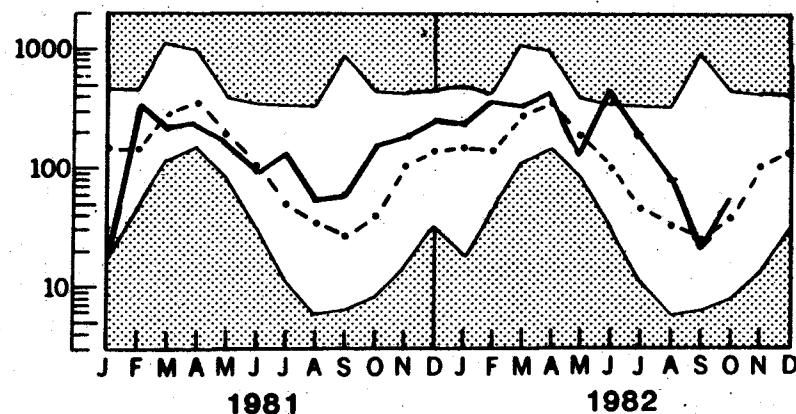
STREAMFLOW AT SELECTED INDEX GAGES

UNSHADED AREA SHOWS RANGE
BETWEEN HIGHEST AND LOWEST
MONTHLY MEAN DISCHARGES OF RECORD

CURRENT RECORD —

WARE RIVER AT

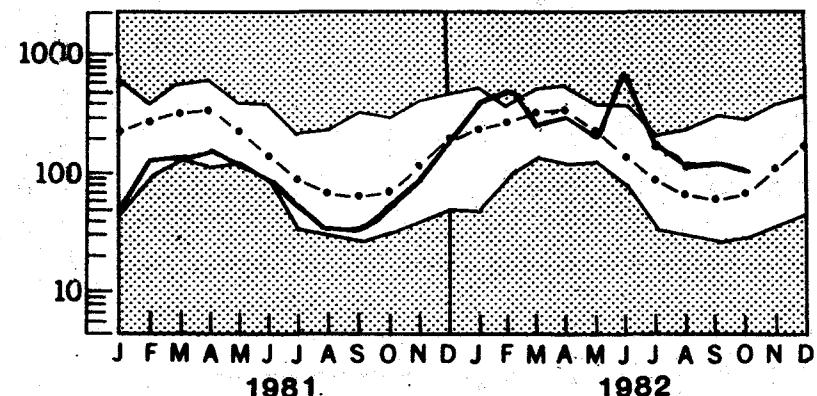
INTAKE WORKS NEAR BARRE, MASS. (A)



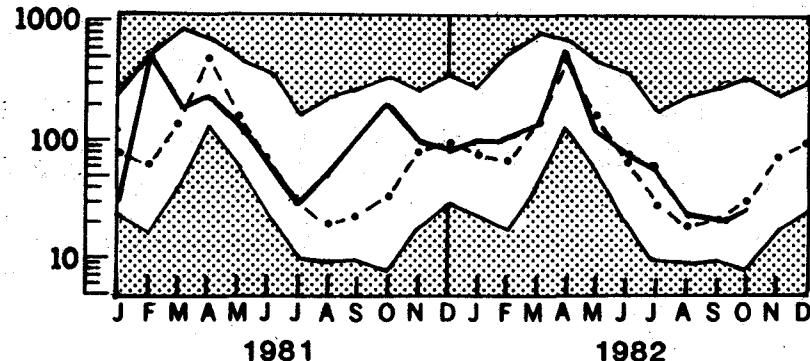
MEDIAN - - - -

PAWCATUCK RIVER

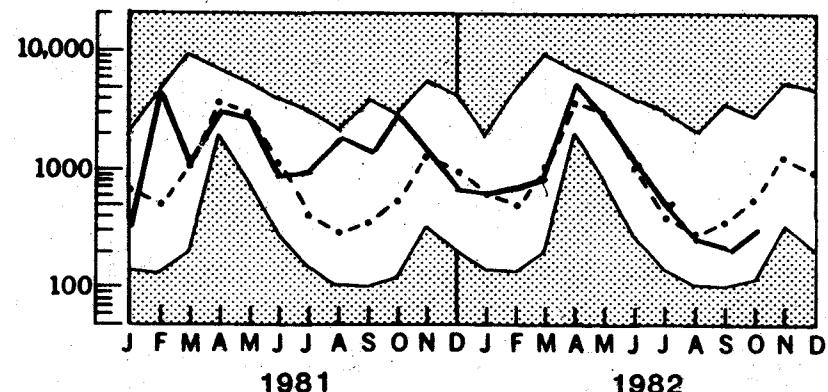
AT WOOD RIVER JUNCTION, R.I. (B)



DOG RIVER AT NORTHFIELD FALLS, VT. (C)



PEMIGEWASSET RIVER AT PLYMOUTH, N.H. (D)

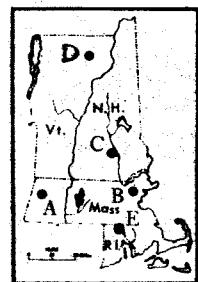


GROUND-WATER LEVELS IN SELECTED OBSERVATION WELLS

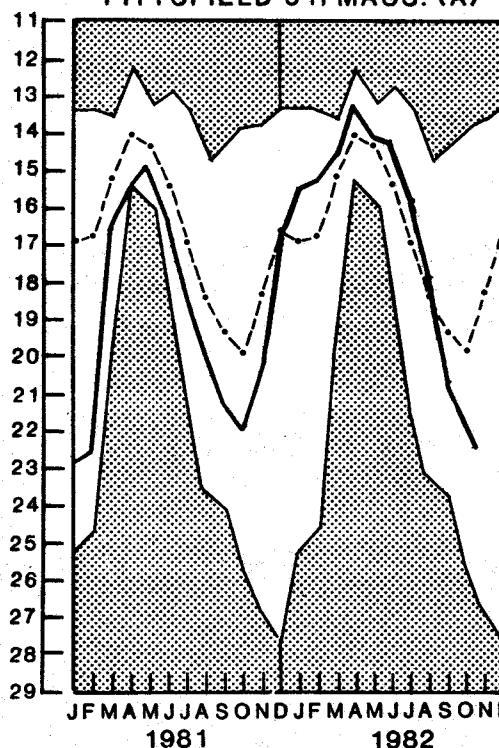
UNSHADeD AREA SHOWS RANGE BETWEEN HIGHEST AND LOWEST
MONTH-END WATER LEVEL OF RECORD

WATER LEVEL IN FEET BELOW LAND SURFACE

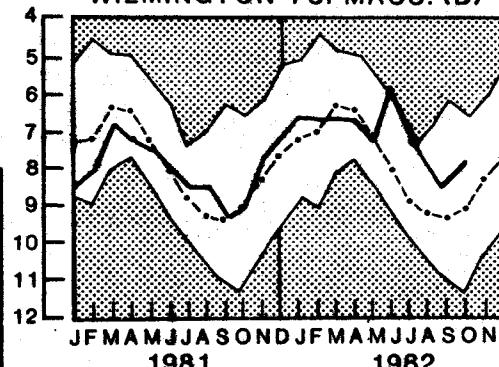
— C —



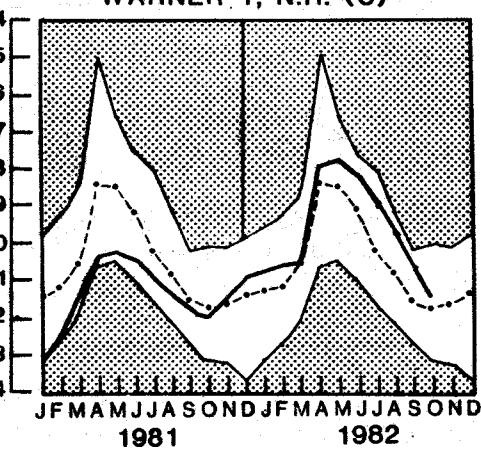
PITTSFIELD 51, MASS. (A)



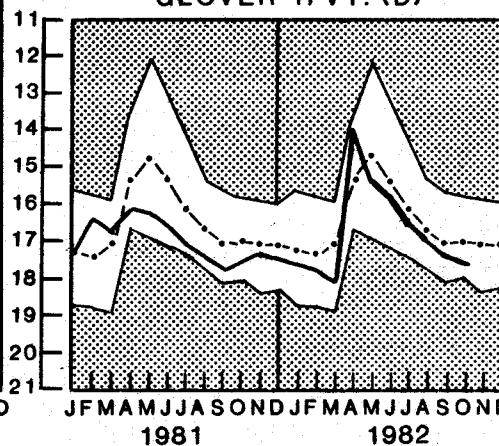
WILMINGTON 78, MASS. (B)



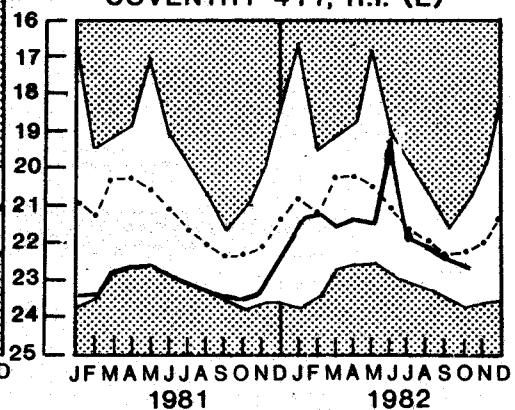
WARNER 1, N.H. (C)



GLOVER 1, VT. (D)



COVENTRY 411, R.I. (E)



SUMMARY OF GROUND-WATER LEVELS, OCTOBER 1982

PROVISIONAL

WELL	START OF RECORD	NET CHANGE		OCTOBER AVERAGE*	DEPARTURE FROM OCTOBER AVERAGE* (FEET)	WATER LEVEL BELOW LAND-SURFACE DATUM (FEET)
		IN MONTH (FEET)	IN ONE YEAR (FEET)			
MASSACHUSETTS						
ACTON 158	1957	- 0.45	+ 1.49	+ 0.88	+ 0.88	19.13
BARNSTABLE 230	1957	- 0.11	+ 1.38	- 0.09	- 0.09	24.70
BARNSTABLE 247	1962	- 0.22	+ 0.96	- 1.57	- 1.57	25.90
BOURNE 198	1962	- 0.40	+ 0.42	- 0.37	- 0.37	34.60
BREWSTER 21	1962	- 0.12	+ 1.86	- 0.78	- 0.78	10.97
CHATHAM 138	1962	- 0.04	+ 1.60	+ 0.40	+ 0.40	24.13
DEDHAM 231	1965	+ 0.30	+ 1.50	- 0.31	- 0.31	10.12
DOVER 10	1965	- 0.59	+ 1.71	+ 0.71	+ 0.71	33.97
EAST BRIDGEWATER 30	1958	+ 0.70	+ 7.34	+ 3.50	+ 3.50	9.47
FREETOWN 23	1964	- 0.20	+ 2.26	+ 1.10	+ 1.10	12.93
GRANVILLE 5	1965	- 0.67	+ 2.67	+ 1.06	+ 1.06	32.89
GREAT BARRINGTON 2	1951	+ 0.23	+ 0.29	- 0.52	- 0.52	12.54
HAVERHILL 23	1960	- 0.08	+ 0.63	+ 0.30	+ 0.30	13.52
LOWELL 14	1939	- 0.18	+ 2.65	+ 1.98	+ 1.98	13.94
MONTAGUE 5	1942	+ 1.29	+ 1.72	+ 0.54	+ 0.54	3.65
NORTHBOROUGH 38	1962	+ 1.31	- 1.99	+ 0.04	+ 0.04	8.35
NORTHBRIDGE 1	1965	+ 0.07	+ 0.49	+ 0.47	+ 0.47	2.98
PITTSFIELD 51	1963	- 1.80	- 0.52	- 2.54	- 2.54	22.50
PLYMOUTH 22	1956	- 0.53	+ 3.15	+ 0.80	+ 0.80	24.30
SANDWICH 252	1962	- 0.02	+ 0.50	+ 0.07	+ 0.07	47.50
SANDWICH 253	1962	- 0.21	+ 1.03	- 1.10	- 1.10	51.30
STERLING 1	1947	+ 0.68	- 3.61	- 0.47	- 0.47	9.65
TRURO 89	1962	+ 0.16	+ 0.43	+ 0.16	+ 0.16	12.25
WELLFLEET 17	1962	- 0.24	+ 1.37	+ 0.36	+ 0.36	10.67
WENHAM 76	1965	+ 0.57	+ 0.77	+ 0.80	+ 0.80	2.54
WEST BROOKFIELD 10	1970	- 0.43	- 4.45	- 2.04	- 2.04	10.93
WEYMOUTH 2	1965	- 0.23	+ 4.35	+ 1.22	+ 1.22	16.28
WILMINGTON 78	1951	+ 0.64	+ 1.14	+ 0.99	+ 0.99	7.98
WINCHENDON 13	1939	- 0.07	- 5.58	+ 0.35	+ 0.35	9.34
WINCHESTER 14	1940	+ 0.48	+ 0.44	+ 0.02	+ 0.02	12.62
NEW HAMPSHIRE						
CONCORD 2	1963	- 0.31	+ 2.67	+ 0.30	+ 0.30	39.97
CONCORD 3	1966	- 0.24	+ 1.37	+ 0.57	+ 0.57	56.43
CONCORD 4	1966	- 0.30	+ 0.69	+ 0.44	+ 0.44	17.64
ERROL 1	1966	- 0.20	- 0.70	- 0.40	- 0.40	12.70
FRANKLIN 1	1966	- 0.97	+ 0.01	+ 0.93	+ 0.93	12.39
HOOKSETT 5	1965	- 0.79	- 0.53	- 0.02	- 0.02	49.45
KEENE 2	1963	+ 0.59	- 1.16	- 0.05	- 0.05	4.27
LANCASTER 1	1966	+ 0.15	- 1.38	- 0.33	- 0.33	2.15
LEE 1	1953	- 0.11	+ 0.10	- 0.17	- 0.17	31.64
MERRIMACK 22	1958	+ 0.71	- 1.17	- 1.13	- 1.13	10.15
MILFORD 36	1962	+ 0.40	- 0.49	+ 1.23	+ 1.23	8.60
NASHUA 143	1958	- 0.23	+ 0.36	+ 0.67	+ 0.67	8.51
NASHUA 218	1964	- 0.37	+ 0.30	+ 0.12	+ 0.12	29.01
NEW LONDON 1	1947	- 1.05	- 3.99	- 1.79	- 1.79	14.73
WARNER 1	1965	- 0.74	+ 0.38	+ 0.17	+ 0.17	31.56
RHODE ISLAND						
BURRILLVILLE 187	1968	- 0.59	+ 0.66	- 0.11	- 0.11	17.54
CHARLESTOWN 18	1946	- 0.75	+ 2.07	+ 0.51	+ 0.51	19.19
COVENTRY 411	1961	- 0.27	+ 0.97	- 0.20	- 0.20	22.60
EXETER 16	1946	*****	+ 1.88	+ 1.95	+ 1.95	10.90
PAWTUCKET 136	1962	- 0.15	+ 1.32	+ 0.26	+ 0.26	5.10
WEST GREENWICH 181	1969	- 0.38	- 0.27	- 0.32	- 0.32	16.81
VERMONT						
BERKSHIRE 1	1966	+ 0.29	- 1.09	- 0.55	- 0.55	14.99
BRIGHTON 1	1966	+ 0.04	- 0.49	+ 0.25	+ 0.25	4.18
CHESTER 1	1966	+ 0.07	- 0.55	- 0.51	- 0.51	5.83
GLOVER 1	1966	- 0.32	+ 0.05	- 0.50	- 0.50	17.53
HARTLAND 54	1969	- 0.05	- 0.61	- 0.44	- 0.44	9.79
MIDDLESEX 3	1966	- 0.04	- 1.40	- 1.22	- 1.22	23.43 ##
MILTON 3	1956	- 1.33	+ 1.21	+ 0.91	+ 0.91	32.36
MONTPELIER 2	1966	+ 0.07	- 1.63	- 1.20	- 1.20	16.73 ##
MORRISTOWN 1	1966	+ 0.01	- 0.72	- 0.53	- 0.53	20.12
PITTSFORD 8	1957	- 0.11	- 0.65	+ 0.72	+ 0.72	36.24
POWNAI 1	1964	- 0.25	- 1.33	- 0.81	- 0.81	15.27
ROCHESTER 1	1966	+ 0.47	- 2.67	- 0.76	- 0.76	12.11
WEST FAIRLEE 1	1966	+ 0.09	- 2.01	- 0.51	- 0.51	4.94

SET NEW LOW OR EQUALLED LOWEST RECORDED WATER LEVEL FOR END OF OCTOBER

--- PREVIOUS MONTH OR YEAR WAS DRY OR FLOWING

* - MONTHLY AVERAGE INCLUDES CURRENT MEASUREMENT

***** - DATA NOT AVAILABLE

A MONTHLY REPORT PREPARED BY THE
 U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION
 150 CAUSEWAY STREET, BOSTON, MA 02114

IN COOPERATION WITH THE STATES OF
 MASSACHUSETTS, NEW HAMPSHIRE, RHODE ISLAND, AND VERMONT